

Application No. 09/883,705
Reply to Office action of June 16, 2004

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently amended): ~~A fire fighting composition~~ The method of claim 13, the aqueous liquid comprising:

~~a fire fighting foam concentrate comprising,~~

~~foamable fire fighting agent, and~~

~~water soluble dye; and~~

~~a diluent having, relative to pure water, a high level of at least one of~~
~~electrolyte, and~~

~~dissolved solid content [[:]]~~

~~a spectral property of a the fire fighting composition being substantially~~
~~proportional to, and indicative of, the concentration of fire fighting agent in the fire~~
~~fighting composition.~~

Claim 2 (Currently amended): ~~The fire fighting composition of claim 1~~ method of claim 13 where the foamable fire fighting agent comprises fluorosurfactant-based foamable fire fighting agent.

Claim 3 (Currently amended): ~~The fire fighting composition~~ method of claim 2 wherein the foamable fire fighting agent is alcohol resistant.

Claim 4 (Currently amended): ~~The fire fighting composition~~ method of claim 2 where the foamable fire fighting agent is non-alcohol resistant ~~fluorosurfactant based foamable fire fighting agent.~~

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Claim 5 (Currently amended): The ~~fire fighting composition~~ method of claim 2, the foamable fire fighting foam agent ~~further~~ comprising hydrocarbon surfactant-based foamable fire fighting agent.

Claim 6 (Currently amended): The ~~fire fighting composition of claim 1~~ method of claim 13, the fire fighting foam concentrate comprising:

not more than 40% by weight of the foamable fire fighting agent, based on the weight of the fire fighting foam concentrate;

not more than 2% by weight of the water-soluble dye, based on the weight of the fire fighting foam concentrate; and

not more than 20% by weight of glycol ether, based on the weight of the fire fighting foam concentrate.

Claim 7 (Currently amended): The ~~fire fighting composition of claim 1~~ method of claim 13, the fire fighting foam concentrate comprising:

not less than 1% by weight of the foamable fire fighting agent, based on the weight of the fire fighting foam concentrate;

not less than 0.0001% by weight of the water-soluble dye, based on the weight of the fire fighting foam concentrate; and

not less than 5% by weight of glycol ether, based on the weight of the fire fighting foam concentrate.

Claims 8-12 (Canceled)

Claim 13 (Previously presented): A method of evaluating a fire fighting foam mix ratio, said method comprising:

- a) introducing into an aqueous liquid a fire fighting foam concentrate comprising:
foamable fire fighting agent; and
water soluble dye,

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to obtain a resultant mixture, a spectral property of the resultant mixture being substantially proportional to the concentration of fighting agent in the resultant mixture;

- b) obtaining a sample of the resultant mixture;
- c) comparing the spectral property of the sample to a pre-established standard; and
- d) determining, based on said comparison, the concentration of foamable fire fighting concentrate in the resultant mixture.

Claim 14 (Canceled):

Claim 15 (Previously presented): The method of claim 13, wherein the spectral property comprises color intensity.

Claim 16 (Previously presented): A method of evaluating a fire fighting composition mix ratio, said method comprising:

- a. introducing into an aqueous liquid a fire fighting foam concentrate comprising:
 - foamable fire fighting agent; and
 - water-soluble dye,to obtain a the fire fighting composition;
- b) obtaining a sample of the fire fighting composition; and
- c) comparing, at a particular wavelength, the absorption of light by the sample to the absorption of light by a pre-established standard, the absorption of light at the particular wavelength being substantially proportional to the concentration of foamable fire fighting agent in the fire fighting composition.

Claim 17 (Previously presented): The method of claim 16, further comprising:

- d) between steps a and b, foaming the fire fighting composition and permitting the foamed fire fighting composition to relax back into liquid form.

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Claim 18 (Currently amended): The method of claim 13, the fire fighting composition of claim 1, comprising:

1% - 40% by weight of the foamable fire fighting agent, based on the weight of the fire fighting foam concentrate;

0.0001% - 2% by weight of the water-soluble dye, based on the weight of the fire fighting foam concentrate; and

5% - 20% by weight of glycol ether, based on the weight of the fire fighting foam concentrate.

Claim 19 (Currently amended): The method of claim 13, the fire fighting composition of claim 1, further comprising [[:]] diethylene glycol butyl ether.

Claim 20 (Canceled)

Claim 21 (Previously presented): A method of evaluating a fire fighting composition mix ratio, said method comprising:

- a) introducing into an aqueous liquid a fire fighting foam concentrate comprising:
 - fluorosurfactant-based foamable fire fighting agent; and
 - water-soluble dye,to obtain a fire fighting composition, a spectral property of the fire fighting composition being substantially proportional to the concentration of the fire fighting foam concentrate in the fire fighting composition;
- b) obtaining a sample of the fire fighting composition; and
- c) comparing the spectral property of the sample to a pre-established standard.

Claim 22 (Previously presented): A method of evaluating a fire fighting composition mix ratio, said method comprising:

- a) introducing into an aqueous liquid a fire fighting foam concentrate comprising:
 - foamable fire fighting agent; and

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water-soluble dye,
to obtain a fire fighting composition, a spectral property of the fire fighting composition being substantially proportional to the concentration of fire fighting foam concentrate in the fire fighting composition;

- b) obtaining a sample of the fire fighting composition; and
- c) comparing the spectral property of the sample to a pre-established standard.

Claim 23 (Previously presented): The method of claim 22, further comprising determining the concentration of fire fighting foam concentrate in the fire fighting composition.

Claims 24-26 (Canceled)

Claim 27. (Currently amended): ~~The fire fighting composition of claim 1~~ method of claim 13, the diluent aqueous liquid comprising sea water.

Claims 28-29. (Canceled)

Claim 30 (New): A method of evaluating a fire fighting foam mix ratio, said method comprising:

- a) introducing into an aqueous liquid a fire fighting foam concentrate comprising:
 - foamable fire fighting agent; and
 - water soluble dye,to obtain a resultant mixture, a spectral property of the resultant mixture being substantially proportional to the concentration of fighting agent in the resultant mixture;
- b) comparing the spectral property of the resultant mixture to a pre-established standard; and

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- c) determining, based on said comparison, the concentration of foamable fire fighting concentrate in the resultant mixture.